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# Voice Analyzer That Serves as Lie Detector Devised

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WASHINGTON, Dec. 20 —An engineer and psychologist was granted three patents this week for a new voice analyzer that serves as a lie detector. In operation, physical contact with the person being examined is not required, and the sound can be transmitted by telephone and recorded. Fred H. Fuller of Chevy Chase, Md., received Patents 3,855,416 through 3,855,418. The equipment, called the Mark II Voice Analyzer, is being produced by Norton Electronics, Inc., Washington, forcement Associates, Inc., and distributed by Law Enforcement Associates, Inc., Belleville, N. J. It is reported that about 15 machines have been ordered.

Patents of the Week

As expressed in one of the patents, the invention is intended to detect emotional stress within a voice pattern, and the presence of such stress is used to determine the truthfulness of response to questions asked

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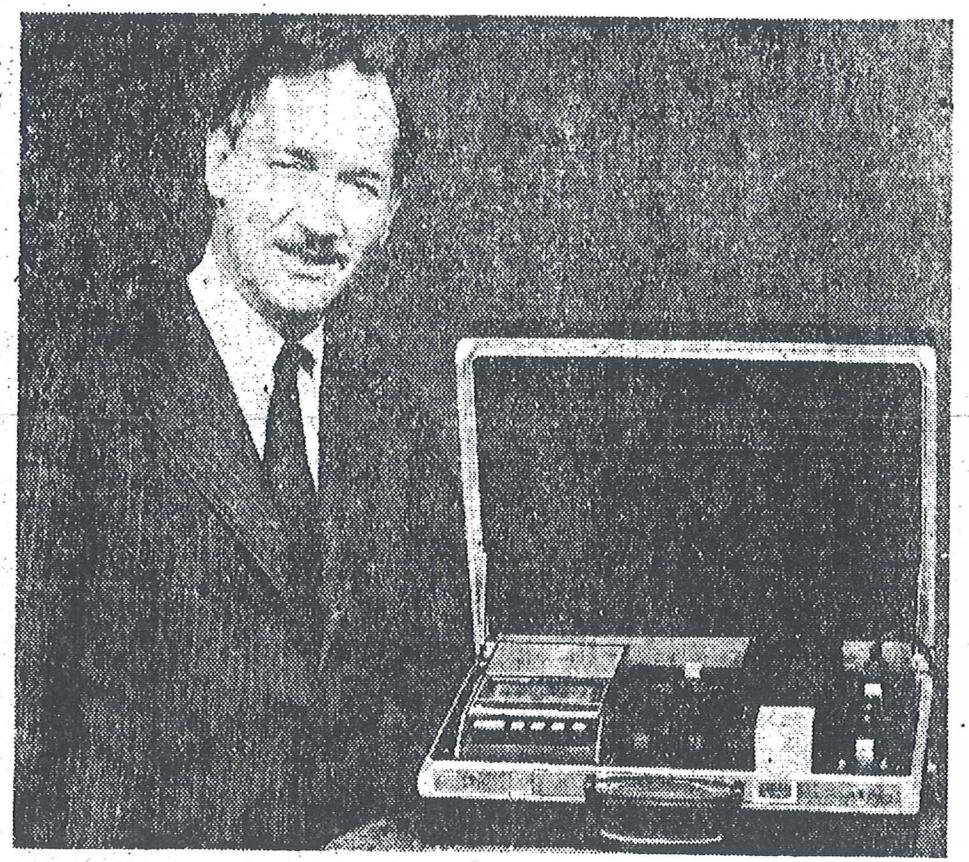

Fred H. Fuller with the Mark II Voice Analyzer for which he was granted three patents. The device, serving as a lie detector, measures emotional stress in speech.

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by a skilled interrogator. It provides a numerical indication of the stress level.

The instrument searches for variations in speech tremors. Using conventional lie detection techniques, assessments of the truthfulness or deceitfulness of the person's responses can be made.

Mr. Fuller has published papers on voice analysis, and has performed contracts on the subject for the Army's land warfare laboratories at the Aberdeen Proving Ground in Maryland. Although the immediate use of his invention is in lie detecting, he regards its field as much broader and hopes to develop superior personality measurement techniques.